

# STATE BUILDING CODE COUNCIL

# Washington State Energy Code Development Standard Energy Code Proposal Form

Jan 2022

Log No. 21-GP3-012

Code being amended:	Commercial Provisions	Residential Provisions			
Code Section # _C404.2.	<u>.1</u>				
Brief Description:					
Delete section C404.2.1 (heat pump water heating mandate) in entirety. This newly added section of the 2021 WSEC-C did not exist in the previous 2018 edition.					

**Proposed code change text:** (Copy the existing text from the Integrated Draft, linked above, and then use <u>underline</u> for new text and <del>strikeout</del> for text to be deleted.)

**C404.2.1 Service water heating system type.** Service hot water shall be provided by an electric air-source heat pump water heating (HPWH) system meeting the requirements of this section. Supplemental service water heating equipment is permitted to use electric resistance or fossil fuel in compliance with Section C404.2.1.4.

#### **Exceptions:**

- 1. 24 kW plus 0.1 watts per square foot of building area of electric resistance service water heating capacity is allowed per building.
- 2. Solar thermal, wastewater heat recovery, other approved waste heat recovery, ground source heat pumps, water-source heat pump systems utilizing waste heat, and combinations thereof, are permitted to offset all or any portion of the required HPWH capacity where such systems comply with this code and the Uniform Plumbing Code.
- 3. Systems that comply with the Northwest Energy Efficiency Alliance (NEEA) Commercial Electric Advanced Water Heating Specification.
- 4. Service hot water systems served by a district energy system that serves multiple buildings and that was in service before the effective date of this code.
- 5. Commercial dishwashers, commercial food service equipment, and other approved process equipment are permitted to utilize electric booster heaters for supply water temperatures 120°F (49°C) or higher.
- 6. Systems connected to a low-carbon district energy exchange system or a low-carbon district heating and cooling or heating only system.
- 7. Essential facilities. Groups I-2 and I-3 occupancies that by regulation are required to have in place redundant emergency backup systems.

### Purpose of code change:

This proposal begins to remedy conflicting provisions in the WSEC-C that are preempted by federal law (EPCA).

The sole purpose of section C404.2.1 is to mandate heat pump water heating appliances thus prohibiting covered products (42 U.S.C. § 6295) in direct violation with the EPCA. Furthermore, the WSEC-C recognizes the need for supplemental heat due to limitations of heat pump technology, yet only provides limited exceptions for electric resistive water heating, but not gas water heating appliances (covered product per 42 U.S.C. § 6295).

For any covered product, "EPCA, 42 U.S.C. § 6297(c), expressly preempts State and local regulations concerning the energy use" California Restaurant Ass'n v. City of Berkeley (9th Cir. 2023).

Your amendment m	ust meet one of the fo	ollowing criteria. Selec	t at least one:				
Addresses a critical life/safety need.			Consistency with state or federal regulations.				
the code.  Addresses a spec	clarifies the intent or cific state policy or sta y conservation is a sta	tute.	Addresses a unique character of the state.  Corrects errors and omissions.				
Check the building types that would be impacted by your code change:							
Single family/duplex/townhome		Multi-family 4 + stories					
☐ Multi-family 1 – 3 stories		Commercial / Retail					
Your name	Gregory Johnson		Email address	gregory.johnson@avistacorp.com			
Your organization	Avista Corporation		Phone number	509-495-4928			
Other contact name	Click here to enter	text.					

## **Economic Impact Data Sheet**

Is there an economic impact:  $\square$  Yes  $\boxtimes$  No

Briefly summarize your proposal's primary economic impacts and benefits to building owners, tenants, and businesses. If you answered "No" above, explain your reasoning.

In reference to the currently in force 2018 WSEC-C, there is zero economic impact as this proposal rolls back changes that the 2021 WSEC-C would have imposed. This proposal averts any cost increases that this section of the 2021 WESC-C would have created.

Provide your best estimate of the **construction cost** (or cost savings) of your code change proposal? (See OFM Life Cycle Cost <u>Analysis tool</u> and <u>Instructions</u>; use these <u>Inputs</u>. <u>Webinars on the tool can be found <u>Here</u> and <u>Here</u>)</u>

\$0 /square foot (For residential projects, also provide \$0 / dwelling unit)

Show calculations here, and list sources for costs/savings, or attach backup data pages

Provide your best estimate of the annual energy savings (or additional energy use) for your code change proposal?

0 KWH/ square foot (or) 0 KBTU/ square foot

(For residential projects, also provide 0 KWH/KBTU / dwelling unit)

Show calculations here, and list sources for energy savings estimates, or attach backup data pages

In reference to the currently in force 2018 WSEC-C, there is zero energy impact as this proposal rolls back changes that the 2021 WSEC-C would have imposed.

List any **code enforcement** time for additional plan review or inspections that your proposal will require, in hours per permit application:

Zero impact to plan review or inspection time or process.

**Small Business Impact.** Describe economic impacts to small businesses:

This proposal averts any cost increases that this section of the 2021 WESC-C would have created. Zero small business impact in relation to the currently in force 2018 WSEC-C.

Housing Affordability. Describe economic impacts on housing affordability:

This proposal averts any cost increases that this section of the 2021 WESC-C would have created. Zero housing affordability impact in relation to the currently in force 2018 WSEC-C.

**Other.** Describe other qualitative cost and benefits to owners, to occupants, to the public, to the environment, and to other stakeholders that have not yet been discussed:

Reduces legal risk and uncertainty to building officials, municipalities, and the state related to conflicting provisions in this code that are preempted by federal law.